**Week 2/Day 3 – 1**

**Continuation of Algebra on the ACT**

*This class will cover the format, directions, and question types that students should expect to be on the Algebra section of the ACT. The formulas and vocabulary used to understand Algebra will be covered in detail. This section accounts for about 15% of the ACT Math test so it is important that students understand the information presented here. There will be a great deal of student problem-solving practice and opportunity for any questions they may have. The concepts outlined below will familiarize the student with the test and alleviate their anxiety about expectations during the class and on the test.*

* **Materials:**
  + Whiteboard
  + Projector
  + Power Point slides (PPT) #8 The *Quadratic Formula*
  + Website: <http://wcb.neit.edu/asc/algeprc1.htm>
  + Worksheets: Quadratic Formula, Order of Operations and ACT Math Practice
* **The student will:**
  + Understand the basic content of the ACT section on *Pre-Algebra*
  + Begin to learn basic *Pre-Algebra* vocabulary and formulas
  + Practice *Pre-Algebra* (amounts for about 23% of ACT math)
* **Hour 1** – Continuation of *Algebra* 
  + 10 minutes – News clip to be summarized as a class (details in ‘Overview’)
  + 15 minutes – PPT- *Quadratic Formula*
    - Learn formula for probability
    - Apply to problems
* 35 minutes-Worksheet: Quadratic Formula
  + Use formula in PPT
  + May work in pairs or individually
* **Hour 2** –Algebra Practice
  + 15 minutes – Website: <http://wcb.neit.edu/asc/algeprc1.htm>
    - Work through as a class
    - Use formulas to answer all questions
  + 20 minutes – BREAK (according to prayer time)
  + 15 minutes—Worksheet: Order of Operations

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* **Hour 3** – Algebra Practice and Closure
  + 50 minutes--Worksheet: ACT Math Practice
    - Students should first work individually, then:
    - Have volunteers come to the board to work the problems
    - Have them show process not just the answer
    - Discuss as a class to ensure understanding
    - Reinforce formulas
  + Summarize and give students expectations for next session (anything they need to work on at night, and what will be taught in the next session) (details in ‘Overview’)
    - Have students recap the sections and time-restraints of the ACT
    - Have students review pre-algebra formulas as a class